

PATENT ABSTRACTS OF JAPAN

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(54) SNOWMOBILE

(57)Abstract:

PURPOSE: To assure safety, by using the linkage mechanisms of a front and a rear suspensions to couple a vehicle body frame to slide rails and providing a compressed helical spring and a shock absorber between the links of each linkage mechanism.

CONSTITUTION: When the slide rail 11 of a snowmobile is suddenly moved upwards at the time of the passing of the vehicle over a protrusion, the pin 25D of the main link 25 of a front suspension 9 and the pin 28C of a coupling link 28 approach each other to contract a compressed helical spring 30 and the pin 33E of the main link 33 of a rear suspension 10 and the pin 35B of a coupling link 35 approach each other to contract a compressed helical spring 38, so that the vibration of the vehicle caused by the protrusion and recess of snow is damped. The subsequent expansion of the springs 30, 38 moves the slide rail 11 downwards to cause a crawler 14 to follow up the surface of the snow. The vertical vibration of the springs 30, 38 is reduced by the oil damping effect of shock absorbers 29, 37 of the suspensions 9, 10.



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